

## Step 59: Essay- A Use Case for Python with database

### Describe how you could use Python with a database

I have spent the last couple of days working on the "autoblogger". It's a program I am writing in Python for my website. Primarily an email handler, the program attends to a specific inbox, [publish@bootstrap.nuljon.com](mailto:publish@bootstrap.nuljon.com). It will read and decode email in order to populate a database with any assets present within the messages. The program will retrieve images and video submitted as attached files. A document title will be extracted from the subject line. HTML header fields will be encoded in the message body, such as description, and author, etc Text blocks will be got from the message body as well. I plan to pass further design directives in the form of CSS styles and html elements and classes used in the attached files naming convention. For example, I might post an email attachment sporting a filename like this: "jumbotraon\_background\_cover\_myimage.jpg". Further design directives can be encoded easily using Markdown syntax. I think I will probably have three email addresses set up like this so that each one can represent a different document template stored in the CGI directory on my website. The idea, I am sure you have guessed by now, is to automate publishing some of my blog entries by passing the content as an email. I spent quite a bit of time struggling with the concepts and terminology comprising the IMAP and MIME-parts email protocols and standards on the mail server yesterday. However, I succeeded to some degree, completing code for functions that accomplish some of my wished-for automation. One instantiates a sub-class of IMAP4 object class returning an authenticated server object open to my INBOX on an encrypted socket. Another function uses a method of the connected server object to fetch all the unread email and parses the returned BYTES assembling a list of instances of the email.message.Message Class, and most, recent and most important for that day, I now have a function that will process a single item of message, extracting all the attachments, if they exist, and stashes them in a file dump or other location if indicated. So I have a bit yet to write, but I feel good about the successes attained thus far. It is pretty cool. Especially, since just last week I didn't know squat about how I might do such things -- using a giant jungle serpent for my primary tool - oh yeah!